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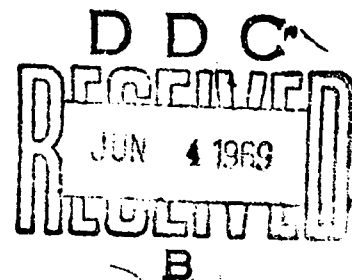
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FINAL REPORT

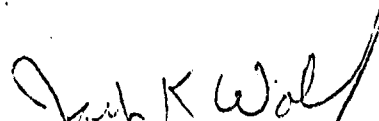
1969 INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY

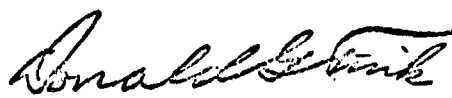
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# ABSTRACT

The 1969 International Symposium on Information Theory, held from January 28 to 31, 1969, in Ellenville, New York, brought together 323 workers in the field from thirteen countries. A broad range of research was presented by the symposium participants who gave nearly one hundred and fifty papers. The number of attendees plus the large number of papers submitted confirmed the soundness of the concept of an international symposium on information theory.

## 1969 INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY

The 1969 International Symposium on Information Theory took place in Ellenville, New York, from January 28-31, 1969. This was the third in a series of symposia which are to be organized at intervals of approximately eighteen months, alternately in the U.S. and abroad.

The symposium was attended by 323 persons from thirteen countries. A breakdown of the number of attendees and their countries follows:

Belgium	2
Canada	20
Denmark	2
France	5
Germany	1
Italy	1
Japan	2
Netherlands	1
Romania	1
Sweden	3
U.K.	2
U.S.	280
U.S.S.R.	<u>3</u>
	323

Over 200 papers were submitted to the conference. Of these 142 were selected for presentation by a board of five editors. Each of the editors, in turn, utilized referees to select the papers for presentation. In addition, there were six invited papers: a keynote address by Peter Elias, three

survey lectures by Robert Gallager, Thomas Kailath, and Thomas Cover, and two lectures on research in the U.S.S.R. by Boris Tsybakov and Kamil Zigangirov.

The 142 contributed papers were presented at 15 technical sessions. The titles of the sessions were:

1. Coding I
2. Adaptive Systems and Pattern Recognition
3. Detection Theory
4. Channel Coding and Error Bounds
5. Estimation
6. Noise I
7. Coding II
- 8a. Two Dimensional Processing
- 8b. Feedback Communications
- 9a. Optical Systems
- 9b. Non-Parametric Detection
10. Source Coding
11. Estimation Tracking and Radar
12. Noise II
13. Coding III
14. Pattern Recognition
15. Communication Systems

These sessions were arranged so that three ran simultaneously. The times of the papers were synchronized so that persons could attend papers in different sessions. The

abstracts of the papers are contained in a booklet entitled "Program and Abstracts of Papers" which is submitted as an addendum of this report. It is expected that these abstracts will also be published in a future issue of the IEEE Transactions on Information Theory.

Eight participants from abroad received financial support for their travel expenses to the symposium. This support was made possible by the grant of the Air Force Office of Scientific Research. Their presence at the conference aided greatly in ensuring the international nature of this meeting.

Comments concerning the symposium, the quality of papers presented, the professional utility of the symposium, and the location were uniformly favorable. The general setting of the conference was most conducive to an invigorating exchange of technical information among the participants, and judged on the basis of all reports, the opportunity was amply utilized.

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Security Classification

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